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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/467,221	12/20/1999	TAKUMI OKAUE	450100-4465.	2064	
20999 7	590 03/18/2003				
	LAWRENCE & HAUG	EXAMINER			
NEW YORK,	'ENUE- 10TH FL. NY 10151		KIM, AHSHIK		
			ART UNIT	PAPER NUMBER	
			2876	,	
			DATE MAILED: 03/18/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

Application No.    Op/467.221   OKAUE ET AL.					XI			
## Examin r		Ap	plication No.	Applicant(s)				
Ashshik Kim 2876  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHCRTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION.  If the period for reply second above is less than thirty (30) days, a reply white in the solution of the period for reply second above is less than thirty (30) days, a reply white the solution reply (30) days, a less of the corrected period for reply second above is less than thirty (30) days, a reply white the solution communication.  If the period for reply second above is less than thirty (30) days, a reply white the state to reply second adverse is a stan thirty (30) days, a reply white the state transport of the communication.  If the period for reply second above is less than thirty (30) days, a reply white the state transport of the communication.  If the period for reply second above is less than thirty (30) days, a reply white the state charge is the period of the communication.  If the period for reply second days are subjected to reply second and the period of the communication, even if timely listed, may reduce any senting period of the communication, even if timely listed, may reduce any senting period of the communication, even if timely listed, may reduce any senting period of the communication is considered to a period of the communication is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 19-24 is/are allowed.  6) Claim(s) 19-24 is/are allowed.  6) Claim(s) 19-24 is/are rejected.  7) Claim(s) 19-24 is/are rejected to by the Examiner.  Application Papers  9) The precipitation is objected to by the Examiner.  Application Papers  9) The drawing(s) filed on 20 December 1999 is/are: a) accepted or b) objected to by the Examiner.  If approved, corrected	•		/467,221	OKAUE ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Leatenced for menyby be selected under the provisions of 37 CPR 1.196(a). In no event, however, may a reply be timely filed  Eatenced for menyby considered where the selection of 37 CPR 1.196(a). In no event, however, may a reply be timely filed  Eatenced for reply separated where the selection of 37 CPR 1.196(a). In no event, however, may a reply be timely filed  If the period for reply separated where the selection of the selection			amin r	Art Unit	·			
A SHORTENDE STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - sher SIX (6) MORTHS from the mailing date of this communication.  - If the period from the period above, the maximum statutory period will apply which the statutory minimum of therty (30) days will be considered timely.  - If NO period for mely specified above, the maximum statutory period will apply and will explice SIX (6) MORTHS from the mailing date of this communication.  - If NO period for mely a specified above, the maximum statutory period will apply and will explice SIX (6) MORTHS from the mailing date of this communication.  - If NO period for mely a specified above, the maximum statutory period will apply and will explice SIX (6) MORTHS from the mailing date of this communication.  - If NO period for mely specified above, the maximum statutory period will apply and will explice SIX (6) MORTHS from the mailing date of this communication.  - If NO period for mely specified above, the maximum statutory period will apply and will explice SIX (6) MORTHS from the mailing date of this communication.  - Apply and the maximum statutory period will apply and will explice SIX (6) MORTHS from the mailing date of this communication.  - Apply and the specification is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - Application of Claims  - Application of Claims  - Application of Claims  - Application is jarae allowed.  - Claim(s) j9-24 is/are rejected to.  - Claim(s) j9-24 is/are rejected to.  - Claim(s) j9-24 is/are rejected to.  - Application Papers  - Provided the specification is objected to by the Examiner.  - Application Papers  - Provided the specified one objected to by the Examiner.  - Application Papers  - Application may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  - The provided the specifie				1 1				
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2a) This action is FINAL. 2b) This action is non-final.  3	THE MAILING DATE OF THIS COMMU  - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this conclusion of the period for reply specified above is less than thirty of NO period for reply is specified above, the maximum failure to reply within the set or extended period for reply and reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b)	NICATION. ons of 37 CFR 1.136(a). mmunication. y (30) days, a reply within o statutory period will app ply will, by statute, cause is after the mailing date of	In no event, however, may a reply be the statutory minimum of thirty (30) of ly and will expire SIX (6) MONTHS fro the application to become ABANDO	timely filed lays will be considered timely, om the mailing date of this community NED (35 U.S.C. § 133).	nication.			
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Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948	<u> </u>		l⊠ accepted or h\□ objecte	d to by the Evaminer				
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### **DETAILED ACTION**

# Receipt of Response

1. Receipt is acknowledged of the response filed on January 2, 2003. Claims 19-24 remain for examination.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 19 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsuo et al. (US 5,974,513).

Matsuo teaches an IC memory card 100 interfacing with an external device – reader/writer 200 (col. 3, lines 10+; col. 2, lines 7+) via various terminals 1a-1e. In one embodiment, memory for data storage can be a flash memory (col. 9, line 63 – col. 10, line 10). In controlling reading/writing of the memory, many switches such as 311 and read-write inhibit flag are used to verify location of address and password stored therein (col. 3, lines 53+). As further shown in figure 5, only after read-write inhibit state is released (see figure 5, col. 5, lines 51+), read/write operation is performed in accordance with the external interface.

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# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 20 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuo et al. (US 5,974,513) in view of Robinson (US 5,388,248). The teachings of Matsuo have been discussed above.

Although Matsuo discloses various connectors 1a-1e, Matsuo fails to specifically teach or fairly suggest that the interface includes nine connectors at least one of which transmits and receives data.

Robinson teaches a memory card 110 for storing data from an external apparatus 101 (col. 1, lines 26+; figure 2). Robinson further discloses the interface within the card includes

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nine connectors at least one of which transmits and receives data (figure 3, and col. 6, lines 27-34).

In view of teachings disclosed by Matsuo and Robnson, it is the Examiner's view that number of connectors used in the interface can be considered a design variation element. For example, if the address location increases (i.e., memory for the data storage is increased), more connectors are required to locate all memory locations. Accordingly, number of connectors can be increased or decreased depending on the capacity of the memory.

4. Claims 21 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuo et al. (US 5,974,513) in view of Jigour et al. (US 5,815,436). The teachings of Matsuo have been discussed above.

Matsuo fails to teach the memory card wherein the data is received from and transmitted to the external apparatus in serial form.

Jigour teaches memory cards (figure 23) wherein the data can be received from and transmitted to the external apparatus in parallel and/or serial form (col. 18, lines 38-53). Serial form of transmitting/receiving data is conventional in the art for cheaply transferring digital information one bit at a time in the order the values were stored during the initial entry. It would have been obvious to one of ordinary skill in the art of normal engineering practices to employ a device to receive data from and transmitted data to the external apparatus in serial form, as is taught by Jigour, in order to maintain low cost of data transfer between the memory card and the external device. Thus such a modification would have been an obvious expedient.

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# Response to Arguments

5. Applicant's amendment and remarks filed on January 2, 2003 have been fully considered.

Although the switch 116 disclosed in the reference to Robinson in previous Office Action can be broadly interpreted as a control means, it is the Examiner's view that control means and settable switch taught in Matsuo provide more relevant teachings on the elements claimed in instant application. Moreover, since the Applicant did not amend any claims and, explained distinction between instant application and teachings disclosed in Robinson and other references, the Examiner has made this Office Action non-final.

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#### Conclusion

- I. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Robinson et al. (US 6,279,069); Robinson (US 6,260,102); Thomson (US 5,818,029); Miyauchi (US 5,883,842) disclose a flash memory card and reader/writer.
- II. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Ahshik Kim* whose telephone number is (703)305-5203. The examiner can normally be reached between the hours of 6:00AM to 3:00PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee, can be reached on (703) 305-3503. The fax number directly to the Examiner is (703) 746-4782. The fax phone number for this Group is (703)308-7722, (703)308-7724, or (703)308-7382.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [ahshik.kim@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ahshik Kim

Patent Examiner

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March 11, 2003

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800